



ENGINEERING OPERATIONS COMMITTEE  
MEETING MINUTES  
APRIL 5, 2007 – 9:00 A.M.  
MULTI-MODAL CONFERENCE ROOM

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*Present:* L. Tibbits J. Friend J. Polasek  
B. O'Brien J. W. Reincke J. D. Culp  
T. Anderson C. Roberts T. Fudaly  
C. Bleech E. Burns

*Absent:* M. Van Port Fleet

*Guests:* G. Mayes D. Spencley D. Pawelec  
C. Libiran

OLD BUSINESS

1. **Approval of the Minutes of the March 8, 2007, Meeting – L. Tibbits**

The March 8, 2007, meeting minutes are approved.

NEW BUSINESS

1. **Revisions to the *Maintenance Work Zone Traffic Control Guides* – G. Mayes and D. Spencley**

New policies have been developed for establishing work zone speed limits, which are incorporated into the revised *Maintenance Work Zone Traffic Control Guides*. The new policy is intended to apply to other temporary work zones, such as utility and permit work. In addition, more detailed guidance for mobile operations has been included.

**ACTION:** EOC approves the revised *Maintenance Work Zone Traffic Control Guides* pending minor editorial corrections. Jon Reincke, Engineer of Maintenance will develop an implementation plan to deliver the new guidelines, and provide training to MDOT employees and contract maintenance agencies.

2. **Pavement Selection – US-41/M-28 Reconstruction: CS 52041, JN 75463 – B. Krom**

The reconstruction alternates considered were a hot mix asphalt (HMA) pavement (Alternate 1 – equivalent uniform annual cost [EUAC] \$29,393/mile) and a jointed plain concrete pavement (Alternate 2 - EUAC \$41,296/mile). A life cycle cost analysis was performed and Alternate 1 was approved based on having the lowest EUAC. The pavement design and cost analysis are as follows:

1.5" ..... HMA, 5E3, Top Course (mainline)  
2" ..... HMA, 4E3, Leveling Course (mainline)  
2" ..... HMA, 4E3, Base Course (mainline)  
1.5" ..... HMA, 5E03, Top Course (shoulders)

2" .....	HMA, 4E03, Leveling Course (shoulders)
6" .....	Aggregate Base (mainline)
8" .....	Aggregate Base (shoulders)
18" .....	Sand Subbase
6" dia. ....	Underdrain System
29.5" .....	Total Section Thickness

Present Value Initial Construction Cost.....	\$445,441/mile
Present Value Initial User Cost.....	\$40,695/mile
Present Value Maintenance Cost .....	\$89,985/mile
Equivalent Uniform Annual Cost .....	\$29,393/mile

3. **Bureau of Highway Instructional Memorandum (BOH IM) 2007-01, *Update to the Michigan Test Methods Manual* – D. Pawelec**

The Construction and Technology Division has completed an update to the *Michigan Test Methods Manual*. BOH IM 2007-01 has been written to notify the manual holders and is ready for signature and distribution upon approval.

**ACTION:** The revisions to the *Michigan Test Methods Manual* are approved. The BOH IM was signed and will be distributed by the Construction and Technology Division.

4. **Standard Plan Review and Approval Process – C. Libiran and J. D. Culp**

The current printing process for standard plans involves direct printing from electronic files. The original mylars are signed by hand; therefore, Engineering Print must scan the mylars and produce prints from the scanned image. This results in poor quality of the final product. This procedure has been revised to replace handwritten signatures with electronic signatures. The printed copies will then match the quality of the original files and images.

**ACTION:** EOC approves the change from handwritten signatures to electronic signatures on standard plans.

(Signed Copy on File at C&T)

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Brenda J. O'Brien, Secretary  
Engineering Operations Committee

BJO:kar

cc: K. Steudle  
J. Shinn  
L. Hank  
EOC Members  
Region Engineers  
TSC Managers  
Assoc. Region Engineers  
T. Kratofil  
M. DeLong  
B. Shreck

S. Mortel  
D. Jackson  
W. Tansil  
D. Wresinski  
C. Libiran  
R. J. Lippert, Jr.  
T. L. Nelson  
T. Phillips  
K. Peters  
J. Ingle

J. Steele (FHWA)  
R. Brenke (ACEC)  
G. Bukoski (MITA)  
D. DeGraaf (MCPA)  
D. Hollingsworth (MCA)  
J. Becsey (APAM)  
M. Newman (MAA)  
J. Murner (MRPA)  
G. Naeyaert (ATSSA)  
C&T Staff